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Amendment to the Claims:

1. (Currently amended) A mobile station (200) for use in a communication system having a base station (100), the mobile station (200) comprising:
  - receiver means (220) for receiving from the base station (100) a first downlink signal,
  - measurement means (250) for measuring a parameter of a portion of the received first downlink signal;
  - power control means (230) for generating first power control commands in response to the measured parameter; and
  - transmitter means (240) for transmitting the first power control commands to the base station (100);wherein said portion of the received first downlink signal ~~the measurement means (250) is adapted to measure the parameter of the first downlink signal while first downlink signal is~~ has been modulated with non-predetermined data values ~~and is subjected to transmit power control in accordance with the first power control commands.~~
2. (Currently amended) A mobile station (200) as claimed in claim 1, wherein the receiver means (220) is adapted to receive from the base station a second, non-power controlled downlink signal and to derive a channel estimate from the second downlink signal, and to employ the channel estimate to decode the first downlink signal.
3. (Currently amended) A mobile station as claimed in claim 1 or 2, wherein the power control means (230) is adapted to decode the non-predetermined data values comprising

second power control commands and to adjust the transmit power of the transmitter means in accordance with the decoded second power control commands.

4. (Currently amended) A radio communication system comprising a base station (100) and at least one mobile station (200) as claimed in claim 1.

5. (Currently amended) A radio communication system as claimed in claim 4, the base station (100) comprising a receiver means (120) for receiving the first power control commands and a transmitter means (140) for transmitting the first downlink signal modulated with non-predetermined data values and subjected to transmit power control in accordance with the first transmit power control commands.

6. (Currently amended) A method of operating a communication system comprising a base station (100) and at least one mobile station (200), comprising  
at the base station (100), receiving first power control commands transmitted by the mobile station (200) and transmitting a first downlink signal modulated with non-predetermined data values and subjected to transmit power control in accordance with the first power control commands, and

at the mobile station (200), receiving the first downlink signal, measuring a parameter of a portion of the first downlink signal, said portion having been modulated with the non-predetermined data values, generating the first power control commands in response to the measured parameter, and transmitting the first power control commands.

7. (Currently amended) A method as claimed in claim 6, comprising at the base station ~~(100)~~, transmitting a second downlink signal at a constant power level, and at the mobile station ~~(200)~~, receiving the second signal, deriving a channel estimate from the second downlink signal, and employing the channel estimate to decode the first downlink signal.

8. (Currently amended) A method as claimed in claim 6 or 7, comprising at the base station ~~(100)~~, arranging for the non-predetermined data values to comprise second power control commands and, at the mobile station ~~(200)~~, decoding the second power control commands and adjusting the transmit power of the mobile station ~~(200)~~ in accordance with the second power control commands.